

## RIMS II MULTIPLIERS

### Total Multipliers for Output, Earnings, and Employment by Industry Aggregation

California Industry	Final-demand multipliers			Direct-effect multipliers	
	Output <sup>1</sup> (dollars)	Earnings <sup>2</sup> (dollars)	Employment <sup>3</sup> (number of jobs)	Earnings <sup>4</sup> (dollars)	Employment <sup>5</sup> (number of jobs)
<b>Agriculture, Forestry, and Fishing:</b>					
1. Farm products and agricultural, forestry, and fishing services	2.2531	0.6867	31.4335	2.0503	1.6905
2. Forestry and fishing products	2.0380	0.5029	16.6599	2.5620	3.0090
<b>Mining:</b>					
3. Coal mining	1.7482	0.4548	11.8040	1.8741	2.5420
4. Oil and gas extraction	1.8812	0.3291	8.7286	2.3759	3.5264
5. Metal mining and nonmetallic minerals, except fuels	1.9609	0.5351	14.0155	1.9806	2.6319
<b>Construction:</b>					
6. Construction	2.3746	0.7677	25.0860	2.1337	2.2290
<b>Manufacturing:</b>					
7. Food and kindred products, and tobacco products	2.1600	0.4500	15.5370	3.6961	4.1386
8. Textile mill products	1.8067	0.4127	15.4668	2.2337	2.0799
9. Apparel and other textile products	2.1912	0.5868	24.5513	2.4096	1.9855
10. Paper and allied products	1.8418	0.4266	12.4092	2.2371	2.6777
11. Printing and publishing	2.0086	0.5895	17.9048	1.9836	2.1995
12. Chemicals and allied products, and petroleum and coal products	1.9792	0.3402	9.0413	3.3470	5.2122
13. Rubber and misc. plastic products and leather and leather products	1.9133	0.4735	15.5995	2.1356	2.1498
14. Lumber and wood products, and furniture and fixtures	2.0847	0.5453	19.2406	2.2865	2.1674
15. Stone clay and glass products	2.1164	0.5698	17.2811	2.2364	2.4859
16. Primary metal industries	1.9616	0.4660	13.3494	2.4088	2.9349
17. Fabricated metal products	2.0613	0.5548	16.8437	2.1671	2.3768
18. Industrial machinery and equipment	2.2434	0.5967	15.1618	2.4766	3.6091
19. Electronic and other electric equipment	2.2051	0.6030	15.7580	2.3444	3.2563
20. Motor vehicles and equipment	2.0162	0.4443	12.9149	2.8668	3.7425
21. Other transportation equipment	2.2566	0.6577	16.1417	2.2623	3.2975
22. Instruments and related products	2.1522	0.6602	16.3627	2.0369	2.9583
23. Miscellaneous manufacturing industries	2.1958	0.5909	21.4446	2.3835	2.1167
<b>Transportation &amp; Public Utilities:*</b>					
24. Transportation	2.2949	0.7066	22.5189	2.1505	2.2857
25. Communications	2.1845	0.5723	15.5144	2.6209	4.0516
26. Electric, gas, and sanitary services	2.1345	0.3822	9.5164	3.4250	7.3761
<b>Trade:</b>					
27. Wholesale trade	2.0510	0.6541	19.1062	1.9010	2.2244
28. Retail trade	2.1019	0.6877	29.9968	1.8274	1.5562
<b>Finance, Insurance, &amp; Real Estate:</b>					
29. Depository and nondepository institutions, and security and commodity brokers	2.2039	0.6616	18.7295	2.2235	2.7527
30. Insurance	2.7821	0.9300	27.3040	2.4861	2.8830
31. Real estate	1.4413	0.1708	6.4467	3.6858	2.8507
<b>Services:</b>					
32. Hotels and other lodging places, amusement and recreation services, and motion pictures	2.6037	0.8497	31.5343	2.3203	2.1758
33. Personal services	2.3329	0.7897	40.3170	1.9711	1.5161
34. Business services	2.2885	0.8564	26.7219	1.8320	1.9844
35. Eating and drinking places	2.3055	0.6694	37.0398	2.1111	1.4940
36. Health services	2.3320	0.8969	26.6310	1.7605	2.0016
37. Miscellaneous services	2.3217	0.7094	28.5243	2.1383	1.8205
<b>Households:</b>					
38. Households	1.4514	0.4218	15.3406	0.0000	0.0000

\* Includes Federal Government enterprises.

1 Each entry in column 1 measures the total dollar change in output in all row industries that results from a \$1 change in output delivered to final demand by the industry corresponding to the entry.

2 Each entry in column 2 measures the total dollar change in earnings of households employed by all row industries that results from a \$1 change in output delivered to final demand by the industry corresponding to the entry.

3 Each entry in column 3 measures the total change in number of jobs in all row industries that results from a \$1 million change in output delivered to final demand by the industry corresponding to the entry. Because the employment multipliers are based on 1997 regional data and 1992 national data, output delivered to final demand should be in 1997 dollars.

4 Each entry in column 4 measures the total dollar change in earnings of households employed by all row industries that results from \$1 change in earnings paid directly to households employed by the industry corresponding to the entry.

5 Each entry in column 5 measures the total change in number of jobs in all row industries that results from a change of one job in the industry corresponding to the entry.

Source: U.S. Department of Commerce. Bureau of Economic Analysis. Multipliers are based on the 1992 Benchmark Input-Output Table for the U.S. and 1997 state data released July 1999. For further information, see *Regional Multipliers: A User Handbook for the Regional Input-Output Modeling System* (RIMS II). Third edition. Washington DC: Government Printing Office March 1997. (202) 606-5343. Web Address: <http://www.bea.doc.gov/bea/regional/rims>